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ABSTRACT OF THE DISCLOSURE

5 A vibration meter and a method of measuring a viscosity  
of a fluid flowing through a pipe are disclosed. The  
vibration meter comprises meter electronics and a  
transducer assembly with an electromechanical excitation  
arrangement and with a flow tube which oscillates in  
10 operation. A sensor arrangement produces sensor signals  
representative of inlet-side and outlet-side deflections  
of the flow tube. An evaluation circuit derives from said  
sensor signals and from an excitation current generated  
by an excitation circuit for the excitation arrangement a  
15 viscosity value representative of the viscosity of the  
fluid.